SHIMPO INSTRUMENTS

Measuring Quality

Series ST-329BL LED Stroboscope

Series ST-329BL is a permanent mount black-light stroboscope array utilizing super bright, CREE high powered LED lamps. The ST-329BL's LED array provides a bright, stable black light over a wide measurement range with a lifetime far exceeding xenon lit stroboscopes. The ST-329BL arrays are available in several standard sizes from 9.25" (235 mm) to 65" (1650 mm) in length. Custom sizes are available upon request. The arrays are easily mountable on production equipment. An optional mounting adapter kit is available to aid in array installation. A separate control enclosure is connected with 6.5' (2 m) cable to the array. Operation is simple with the 8 button keypad and large, backlit LCD display. Phase shift, flash duration, plus flash rate are all quickly adjustable via the control. The unit can work off user programmed flash frequency or from a remote sensor's signal which will automatically adjust to corresponding process fluctuations.

The ST-329BL is designed for speed and frequency measurements in the printing, packaging, textile, automotive, cable, medical industries in various applications.

ST-329BL-4 LED Array shown with Optional Mounting Kit

Features

- *Wide Flash Range 60 – 120,000 Flashes/min. can be adjusted to meet almost any high-speed application*
- *Long-life LED operation*
- *Adjustable Flash Pulse duration achieves sharper images for detailed inspection*
- *Phase Shift Advances or retards flash timing for viewing gear teeth, cutting surfaces, repeats or "drifting" images*
- *Input sensor trigger function allows process machinery to control flash rate*
- *Delay time adjustment combined with leading or trailing edge activation simplifies process set-up when using external signal input*
- *Ten standard size lengths from 9" (235 mm) to 65" (1650 mm). Custom options available.*
- *x2 and 1/2 keys for large adjustment rate change or +/- for fine tuning*

ST-329 Operation Control Enclosure

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ST-329BL Specifications

Flash Rate Range	60 to 120,000 FPM
Accuracy	0.01%±1 digit of F.S. @ 77° F (25°C)
Lamp Lifetime	Approximately 3~5 years depending on usage.
Display	Backlit LCD
Resolution	60 ~12,000 FPM = 0.1 FPM; 12,001~120,000 FPM = 1 FPM
Flash Duration	0.1°- 2.5°
Phase Shift	0-359°
Power Requirement	100-120 VAC; Optional 220-260 V
Input Signal	12 V Pulse Input; 3 Pin M-12 connection
Input Signal Range	60-120,000 FPM
Input Pulse Width	Over 50 μs
Input Signal Flash Delay	0-999 ms; 0-359°
Temperature Limits	32-95°F (0-35°C)
Humidity Limits	35 to 85% RH
Enclosure	Control - ABS; Array - ABS window & aluminum frame
Mounting	Control: Magnetic mount to include bracket; Array: Flanges for use with 6 mm bolts. Mounting bracket kit available separately.
Enclosure Rating	IP65 - Control & Array
Dimensions	Length (See model chart) x 6" (153 mm) x 3.5" (90 mm)
Approvals	CE
Warranty	1 year
Included Accessories	6.5' (2 m) AC power cord, 9.8' (3 m) control/array connection cable (5 pin)

Ordering Details

Model	Length	# LED Groups	# LED's
ST-329BL-0	9.25" (235 mm)	2	18
ST-329BL-1	20" (500 mm)	3	27
ST-329BL-2	24" (600 mm)	4	36
ST-329BL-3	31" (800 mm)	6	54
ST-329BL-4	39" (1000 mm)	7	63
ST-329BL-5	39" (1000 mm)	8	72
ST-329BL-6	47" (1200 mm)	9	81
ST-329BL-7	47" (1200 mm)	10	90
ST-329BL-8	63" (1600 mm)	11	99
ST-329BL-9	65" (1650 mm)	12	108

Accessories

Model	Description
MK-320	Mounting Kit for ST-329 Strobe Arrays

ST-329BL-1 LED Array shown with Optional Mounting Kit

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